International Application No.: PCT/US2004/042701 International Filing Date.: December 17, 2004 Second Preliminary Amendment dated June 16, 2006

APPENDIX: Sequence Listing

iAP20 Rec'd PCT/PTO 16 JUN 2006

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<110> Arumugham, Rasappa
      Prasad, A. Krishna
<120> Methods of Producing Immunogenic Peptide Carrier Conjugates
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<151> 2003-12-17
<160> 54
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Gln Val His Phe Gln Pro Leu Pro Pro Ala Val Lys Leu
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                                  10
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10

15

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Arq His Asp
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Gly Leu Met Val Gly Gly Val Val Ile Ala
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            20
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Leu Arg Val Pro Lys Val Ser Ala Ser His Leu Glu 20 25

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Arg Val Pro Lys Val Ser Ala Ser His Leu Glu

<210> 25

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<213> Homo sapiens

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Ile Gly Ile Thr Glu Leu 20

<210> 26

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Ala Ala

<210> 28

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<400> 28

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Phe Arg His Asp Asp Ala Glu Phe Arg His Asp Asp Ala Glu Phe Arg 20 25 30

His Asp

<210> 29

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Lys Ala Ala Ala
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      24
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Ala Glu Ile Asn Glu Ala Gly Arg
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            20
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      24
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      Homo sapiens
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Glu Phe Arg His Asp Ser Gly Ile Ser Gln Ala Val His Ala Ala His
                                    10
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Ala Glu Ile Asn Glu Ala Gly Arg 20

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<213> Homo sapiens

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Pro Lys Tyr Val Lys Gln Asn Thr Leu Lys Leu Ala Thr Asp Ala Glu $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$

Phe Arg His Asp Asp Ala Glu Phe Arg His Asp Asp Ala Glu Phe Arg 20 25 30

His Asp

<210> 34 <211> 27 <212> PRT

<213> Homo sapiens

<400> 34

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Lys Leu Ala Thr Asp Ala Glu Phe Arg His Asp 20 25

<210> 35 <211> 34

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<210> 37

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Lys Leu Ala Thr Glu Lys Lys Ile Ala Lys Met Glu Lys Ala Ser Ser 20 25 30

Val Phe Asn Val Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile $35 \hspace{1cm} 40 \hspace{1cm} 45$

Thr Glu Leu Phe Asn Asn Phe Thr Val Ser Phe Trp Leu Arg Val Pro 50 55 60

Lys Val Ser Ala Ser His Leu Glu Asp Ala Glu Phe Arg His Asp 65 70 75

<210> 38

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<213> Homo sapiens

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Val Pro Lys Val Ser Ala Ser His Leu Glu 50 55

<210> 39

<211> 44

<212> PRT

<213> Homo sapiens

<400> 39

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Leu Arg Val Pro Lys Val Ser Ala Ser His Leu Glu 35 40

<210> 40

<211> 535

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<213> Homo sapiens

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Phe Ser Ser Tyr His Gly Thr Lys Pro Gly Tyr Val Asp Ser Ile Gln 20 25 30

Lys Gly Ile Gln Lys Pro Lys Ser Gly Thr Gln Gly Asn Tyr Asp Asp 35 40 45

Asp Trp Lys Glu Phe Tyr Ser Thr Asp Asn Lys Tyr Asp Ala Ala Gly 50 55 60

Tyr Ser Val Asp Asn Glu Asn Pro Leu Ser Gly Lys Ala Gly Gly Val 65 70 75 80

Val Lys Val Thr Tyr Pro Gly Leu Thr Lys Val Leu Ala Leu Lys Val 85 90 95

Asp Asn Ala Glu Thr Ile Lys Lys Glu Leu Gly Leu Ser Leu Thr Glu 100 105 110

Pro Leu Met Glu Gln Val Gly Thr Glu Glu Phe Ile Lys Arg Phe Gly 115 120 125

Asp Gly Ala Ser Arg Val Val Leu Ser Leu Pro Phe Ala Glu Gly Ser 130 135 140

Ser Ser Val Glu Tyr Ile Asn Asn Trp Glu Gln Ala Lys Ala Leu Ser 145 150 155 160

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Val Glu Asp Ser Ile Ile Arg Thr Gly Phe Gln Gly Glu Ser Gly His
405 410 415

Asp Ile Lys Ile Thr Ala Glu Asn Thr Pro Leu Pro Ile Ala Gly Val 420 425 430

Leu Leu Pro Thr Ile Pro Gly Lys Leu Asp Val Asn Lys Ser Lys Thr 435 440 445

His Ile Ser Val Asn Gly Arg Lys Ile Arg Met Arg Cys Arg Ala Ile 450 455 460

Asp Gly Asp Val Thr Phe Cys Arg Pro Lys Ser Pro Val Tyr Val Gly 465 470 475 480

Asn Gly Val His Ala Asn Leu His Val Ala Phe His Arg Ser Ser Ser 485 490 495

Glu Lys Ile His Ser Asn Glu Ile Ser Ser Asp Ser Ile Gly Val Leu 500 505 510

Gly Tyr Gln Lys Thr Val Asp His Thr Lys Val Asn Ser Lys Leu Ser $515 \hspace{1.5cm} 520 \hspace{1.5cm} 525$

Leu Phe Phe Glu Ile Lys Ser 530 535

<210> 41

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<400> 41

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Arg

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<211> 42

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Asp Ala Glu Phe Gly His Asp Ser Gly Phe Glu Val Arg His Gln Lys 5 10 15

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                               25
Gly Leu Met Val Gly Gly Val Val Ile Ala
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<223> A-beta 17-24 + C
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Leu Val Phe Phe Ala Glu Asp Val Cys
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Cys Val Phe Phe Ala Glu Asp Val Gly
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Cys Leu Val Phe Phe Ala Glu Asp Val
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Val Phe Phe Ala Glu Asp Val Cys
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